

Application No. 10/655,938
Amendment dated April 20, 2005
Reply to Office Action of December 22, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) An image sensing apparatus comprising:
 - a first shake detecting section having a first shake sensor which detects a shake of the image sensing apparatus in a first direction, the first shake sensor having a first detection characteristic;
 - a second shake detecting section having a second shake sensor which detects a shake of the image sensing apparatus in a second direction, the second shake sensor having a second detection characteristic different from the first detection characteristic; and
 - a shake correcting section which corrects a shake of the image sensing apparatus based on outputs from the first shake detecting section and the second shake detecting section.
2. (Original) The image sensing apparatus according to Claim 1, wherein the first direction is a yaw direction of the image sensing apparatus, and the second direction is a pitch direction of the image sensing apparatus.
3. (Original) The image sensing apparatus according to Claim 2, wherein the first and second detection characteristics are in connection with a precision in shake detection.
4. (Previously Presented) The image sensing apparatus according to Claim 3, wherein the shake detection precision of the second shake sensor is higher than the shake detection precision of the first shake sensor.

5. (Previously Presented) The image sensing apparatus according to Claim 4, wherein the shake detection precision of the second shake sensor is less influenced by temperature than the shake detection precision of the first shake sensor.

6. (Previously Presented) The image sensing apparatus according to Claim 1, wherein the first and second detection characteristics are in connection with a driving frequency of the shake sensor.

7. (Original) An image sensing apparatus comprising:
a yaw sensor which detects a shake of the image sensing apparatus in a yaw direction;
a pitch sensor which detects a shake of the image sensing apparatus in a pitch direction, the pitch sensor having a detection precision higher than the yaw sensor; and
a shake correcting section which corrects a shake of the image sensing apparatus based on an output signal from the yaw sensor and an output signal from the pitch sensor.

8. (Original) The image sensing apparatus according to Claim 7, wherein the pitch sensor has a smaller temperature-dependent sensitivity variation than the yaw sensor.

9. (Original) The image sensing apparatus according to Claim 7, wherein the yaw sensor and the pitch sensor have driving frequencies different from each other.

10. (Currently Amended) The image sensing apparatus according to Claim 7, further comprising:
a temperature sensor which detects a temperature of at least one of the yaw sensor and the pitch sensor; and
an output signal correcting section which corrects the output signal from at least one of the ~~horizontal direction shake detecting pitch~~ sensor and the ~~vertical direction shake detecting yaw~~ sensor based on the detection result from the temperature sensor to thereby cancel the output signal variation due to the sensitivity variation caused by a change in the temperature.

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11. (Original) The image sensing apparatus according to Claim 10, further comprising:

a lookup table which stores correction coefficients in correlation to detection results outputted from the temperature sensor,

wherein the output signal correcting section selects a suitable correction coefficient from the correction coefficients in the lookup table based on a detection result from the temperature sensor, and corrects the output signal from at least one of the yaw sensor and the pitch sensor based on the selected correction coefficient.

12. (Original) The image sensing apparatus according to Claim 7, further comprising:

a temperature sensor which detects a temperature of the pitch sensor; and

an output signal correcting section which corrects the output signal from the pitch sensor based on a detection result from the temperature sensor to thereby cancel the output signal variation due to the sensitivity variation caused by a change in the temperature.

13. (Original) The image sensing apparatus according to Claim 12, further comprising a lookup table which stores correction coefficients in correlation to detection results outputted from the temperature sensor, wherein the output signal correcting section selects a suitable correction coefficient from the correction coefficients in the lookup table based on a detection result from the temperature sensor, and corrects the output signal from the pitch sensor based on the selected correction coefficient.

14. (Cancelled)

15. (Cancelled)